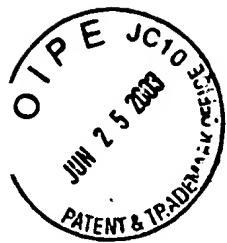


MHLLLVQLLVLLPLGKADLCVDGCQSQGSLSFPLLERGRRDLHVNHEEAEDKPDLFVAVPHLM  
GTS LAGEGQRQRGKM LSR LGRFWKKPETEFYPPRDVESDHVSSGMQAVTQPADGRKVERSPLQE  
EAKRFWHRFMFRKGPAFQGVILPIKSHEVHWETCRTVPFNQTI AHEDCQKV VVQNNLCFGKCSS  
IRFPGE GADAH SFCSHCSPTKFTTVHMLNCTSP TPVVKMVMQVEECQCMVKTERGEERLLLAG  
SQGSFIPGLPASKTNP (SEQ ID NO: 2)

## FIGURE 1



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## Construct

GI Number(s): 6753409

G n : 67  
Gen Family: Growth Factor Inhibitor  
G n Subfamily: Cerberus  
G n Sequence: full length cDNA, Mouse

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underlined = deleted in targeting construct  
[ ] = sequence flanking Neo insert in targeting construct

[GGGGGGGGGGGGGGT CAGAGGGAGCTTTCTTTTAGGCCCCGTCATCTGTGAATCTAACCT  
CAGTTTCTGGGAATCAGGAAGCATGCATCTCCTCTTAGTTCAGCTGCTTGTCTCTTGCC  
TCTGGGGAAGGCAGACCTATGTGTGGATGGCTGCCAGAGTCAGGGCTCTTTATCCTTTCC  
TCTCCTAGAAAGGGGTCGCAGAGATCTCCACGTGGCCAACCACGAGGAGGCAGAAGACAA]  
GCCGGATCTGTTTGTGGCCGTGCCACACCTCATGGGCACCAGCCTGGCTGGGGAAGGCCA  
GAGGCAGAGAGGGAAGATGCTGTCCAGGCTTGAAGATTCTGGAAGAAACCTGAGACCGA  
ATTTTACCCCCCAAGGGATGTGGAAGCGATCATGTCTCATCGGGGATGCAGGCCGTGAC  
TCAGCCAGCAGATGGGAGGAAAGTGGAGAGATCACCTCTACAGGAGGAAGCCAAGAGGTT  
CTGGCATCGGTTTCATGTTTCAAGAGGGCCCGGCGTTCCAGGGAGTCAT[CCTGCCCCATCAA  
AAGCCACGAAGTACACTGGGAGACCTGCAGGACTGTGCCCTTCAACCAG]ACCATTGCCCCA  
TGAAGACTGTCAAAAAGTCGTTGTCCAGAACAACCTTTGCTTTGGCAAATGCAGTTCCAT  
TCGTTTTCCCGGAGAAGGGGCAGATGCCACAGCTTCTGCTCCCACTGCTCGCCCCACAA  
ATTACACACCGTGCACCTTGATGCTGAACCTGCACAGCCCAACCCCCGTGGTCAAGATGGT  
GATGCAAGTAGAAGAGTGTCACTGCATGGTGAAGACGGAACGTGGAGAGGAGCGCCTCCT  
ACTGGCTGGTTCCAGGGTTCCTTTCATCCCTGGACTTCCAGCTTCAAAAACAAACCCATG  
AATTACCTCAACAGAAAGCAAAACCTCAACAGAATAAGTGAGGGTTATTCAATCTGGAAA  
TGTTATGTGAGTTATATAAGATCAGTGGAAAATATCTTTCTCTCTCTCTCTCTCTCTCTCA  
CACACACACACACACACACACACACATGTTTGTGTTTAGACAGGGTCTTATGTA  
TTCTCAGCTGGCCTCAAACCTACAAATGTGGCTGGGGATGATTTTAACTCCTGATCCAAT  
TCCTGAGTGTGGGATTACAGCATGCTCCATAANACATAGCTCCCAGAAGGATTTTAA  
AAGAGATTTTGCATGTTTCAAGTTGCCTTTGAGACTCAGAAATATTTTGATNTATTGAA  
TGGCCTTGCCACAGATGTGGGAGGCAGCTTGCTTGGTGGCCCAAGTATTTTTTTTGT  
CGTTCAGAATTCTCCACATGAAGTTTTTACTGTTGGTTATCTGGCGTTGAAGAAGGAATA  
GTGAAGGTACTTTTAAACAGTTTACACGTGGAAGGGGCTCAGGCACTAGGAACCAACCTTT  
TCCCGGAATATGAGGAAAATACATGAACAGTATTAGAGTCACTTGAGGAAGTTACTAGGA  
AACGCCATAAGTCTCCAAGTACATTGTGAGTCATTTTGAAGGACAATCGTGTATATAGAC  
GAAATCTTCTACTCGTATGCTTTGAATCTTCTAGCAAGTTAGGTTTCTATGTTTGGGCT  
TCTTCTATTGTCTAAGAGTATGTGTGACAAATTCAACCTGACAAATACCTCAATGGCAA  
ATTCTGACCCTG (SEQ ID NO:1)

Gene Sequence  
Structure \*

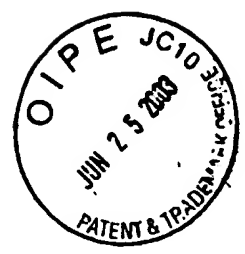
241 bp

Sequence Deleted

528 bp

Size of full-length cDNA: 1752 bp

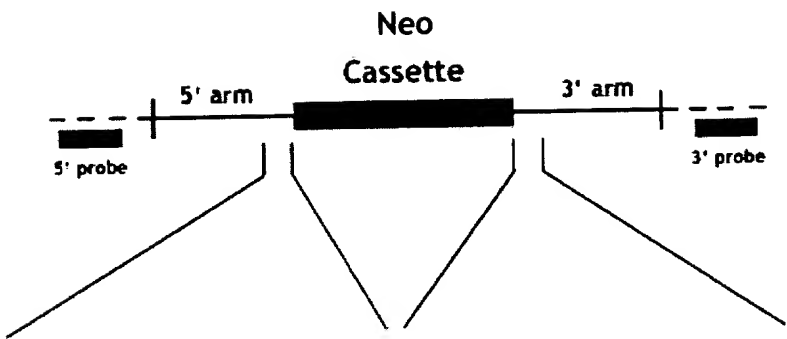
FIGURE 2A



Targeting Vector\* (genomic sequence)

Construct Number: 269

Arm Length:  
5': 2 kb  
3': 1.7 kb



———— Targeting Vector  
- - - - Endogenous Locus

\* Not drawn to scale

<div>5' &gt;TCCATCTGTGAATCTAACCTC AGTCTCTGGGAATCAGGAAGCATG CATCTCCTCTTAGTTCAGCTGCTT GTTCTCTTGCCTCTGGGGAAGGCA GACCTATGTGTGGATGGCTGCCAG AGTCAGGGCTCTTTATCCTTTTCCT CTCCCAGAAAGGGTTCGCAGAGAT CTCCACGTGGCCAACCACGAGGAG GCAGAAGACAA&lt;3' SEQ ID NO: 3</div>	<div>5' &gt;CCTGCCCCATCAAAAGCCACGA AGTACACTGGGAGACCTGCAGGAC TGTGCCCTTCAACCAGGTATGCAT TCTAGAGGGTAAACCACCAGTTTG CCAGACAGGGAGGACAGCTGGACA GCTAGGACAAACGGCAAAATAGAA AGAGTCTGGCGAGAGCTCGGGCCT TGTCTAGTTCCAGATTCAGTCCTT TGGGTATTCAT&lt;3' SEQ ID NO: 4</div>
--	--

FIGURE 2B

# Phenotypic Data Summary - Open Field

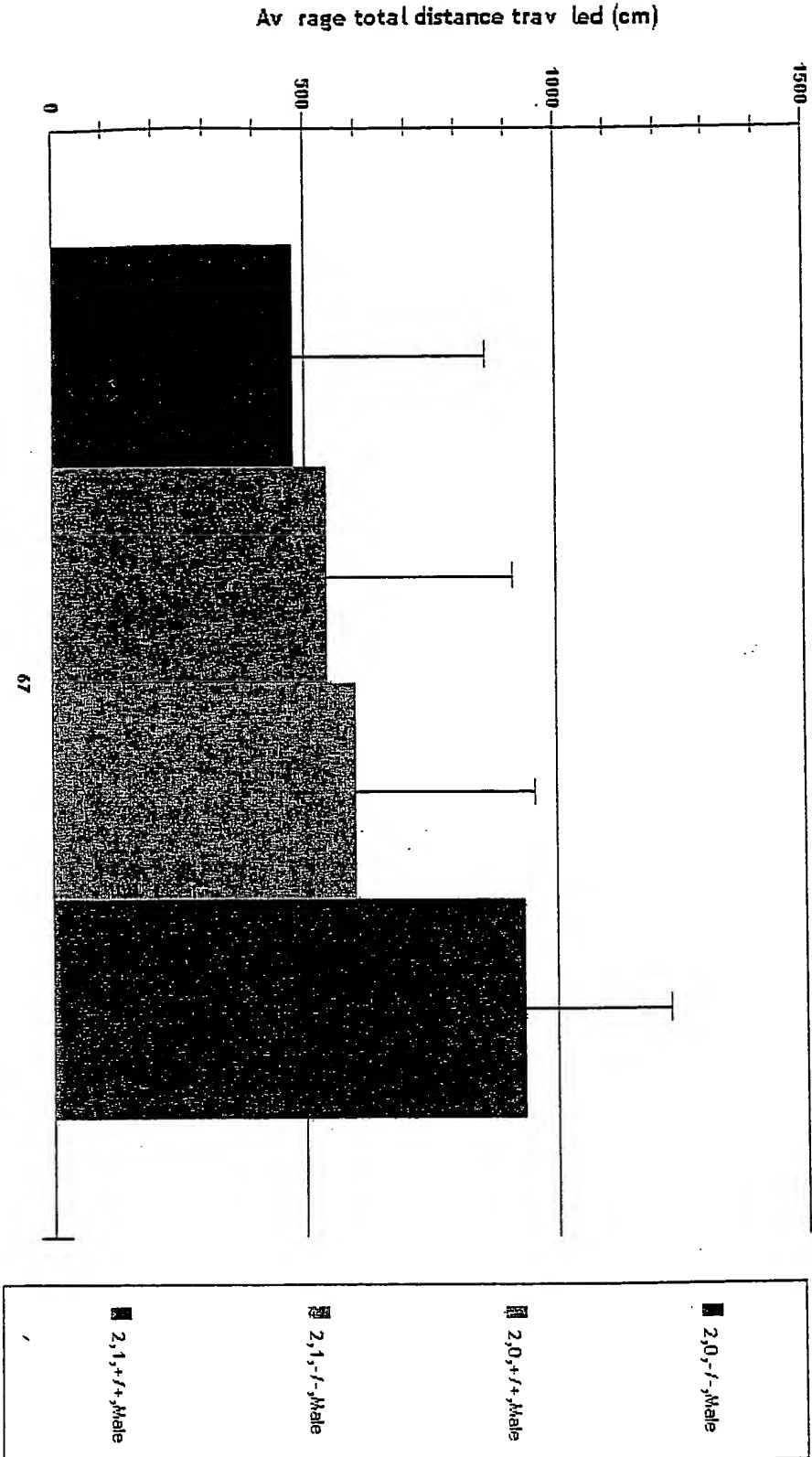
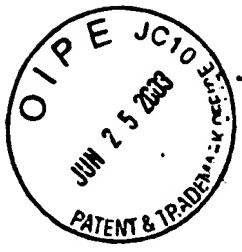


FIGURE 3



## Phenotypic Data Summary - Tail Suspension

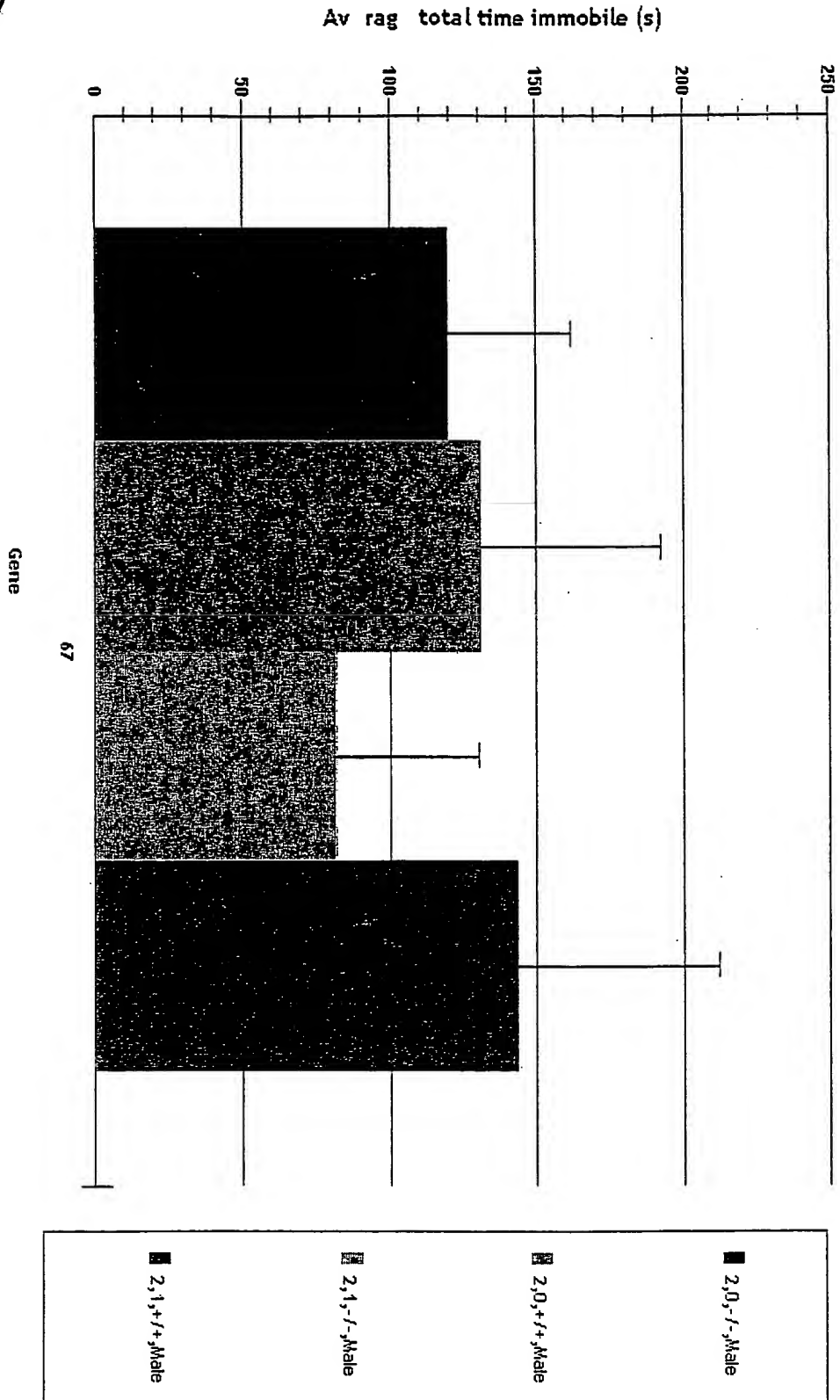


FIGURE 4